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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/712,690
Filing Date	November 13, 2003
First Named Inventor	Chen, et al.
Group Art Unit	173 1763
Examiner Name	UNKNOWN Zervigon
Attorney Docket Number	AMAT/6766/CPI/LB/PJS
Submission Date	September 29, 2004

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
PT	A57	US-20030113187	06/19/2003	Lei, et al.	414/217
	A58	US-20030108674	06/12/2003	Chung, et al.	427/255.394
	A59	US-20030106490	06/12/2003	Jallepally, et al.	117/89
	A60	US-20030101927	06/05/2003	Raaijmakers, et al.	117/200
	A61	US-20030089308	05/15/2003	Raaijmakers, et al.	117/200
	A62	US-20030082307	05/01/2003	Chung, et al.	427/402
	A63	US-20030082301	05/01/2003	Chen, et al.	427/255.28
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	A65	US-20030072913	04/17/2003	Chou, et al.	428/114
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	A67	US-20030057527	03/27/2003	Chung, et al.	257/642
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		Country Code ⁴ -Number ⁵ -Kind Code ⁶ (if known)				
PT	BT	WO 03/23835	03/20/2003	Lee, et al.		

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with non communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Index Codes of USPTO Patent Documents at www.uspto.gov or MPEP 601.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Communication for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-789-9199) and select option 2.

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PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Sheet 2

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Application Number

10/712,690

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November 13, 2003

First Named Inventor

Chen, et al.

Group Art Unit

~~1794~~ 1763

Examiner Name

Unknown Zervigon

Attorney Docket Number

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		Number-Kind Code ² (if known)			
A2	A29	US-20040011504	01/22/2004	Ku, et al.	165/47
	A30	US-20040011404	01/22/2004	Ku, et al.	137/341
	A31	US-20040009307	01/15/2004	Koh, et al.	427/569
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A5	A50	US-20030143747	07/31/2003	Bondestam, et al.	427/255.28
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Sheet 1

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Application Number

10/712,690

Filing Date

November 13, 2003

First Named Inventor

Chen, et al.

Group Art Unit

1734 1763

Examiner Name

Unknown Zervigon

Attorney Docket Number

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		Number-Kind Code ² (if known)			
176	A1	US-6778762	08/17/2004	Shareef, et al.	392/416
	A2	US-6660126	12/09/2003	Nguyen, et al.	156/345.34
	A3	US-6632279	10/14/2003	Ritala, et al.	117/101
	A4	US-6630201	10/07/2003	Chiang, et al.	427/255.28
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	A6	US-6620723	09/16/2003	Byun, et al.	438/627
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	A22	US-20040033698	02/19/2004	Lee, et al.	438/761
	A23	US-20040018747	01/29/2004	Lee, et al.	438/643
	A24	US-20040018723	01/29/2004	Byun, et al.	427/250
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	A27	US-20040014320	01/22/2004	Chen, et al.	422/129
	A28	US-20040013577	01/22/2004	Ganguli, et al.	

Examiner

Date Considered

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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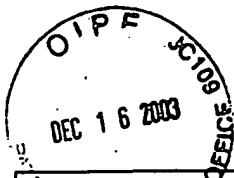
Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/712,690
				Filing Date	November 13, 2003
				First Named Inventor	Chen, et al.
				Group Art Unit	4734 4763
				Examiner Name	Unknown Zerrigon
				Attorney Docket Number	AMAT/6766/CPI/L/B/PJS
				Sheet 4	of 4

[illegible]

Examiner

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Sheet 1 of 7 sheets

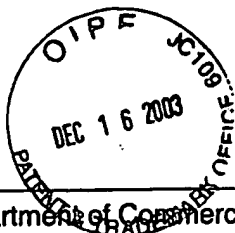
U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)		Docket No. APPM/6766	Serial No. 10/712,690
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant Chen, et al.	Confirmation No.
(Use several sheets if necessary)		Filing Date November 13, 2003	Group 1763
Examiner <i>Unknown Zervigon</i>			

U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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	A2	6,511,539	01/28/2003	RAAIJMAKERS	117	102	09/08/1999
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Examiner <i>[Signature]</i>	Date Considered <i>8/8/5</i>
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Examiner Unknown <i>Zervigon</i>			

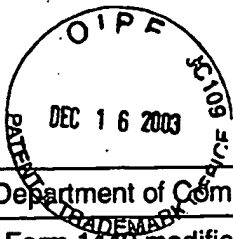
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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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✓	A26	5,443,647	08/22/1995	AUCOIN, ET AL.	118	723 ME	07/11/1994

Examiner *Michael Zervigon*

Date Considered *8/8/95*

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(Use several sheets if necessary)		Filing Date November 13, 2003	Group H63
Examiner Unknown <i>Zervigon</i>			

U.S. Patent Documents

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	A2	5,374,570	12/20/1994	NASU, ET AL.	437	40	08/19/1993
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	A5	5,225,366	07/06/1993	YODER	437	108	06/22/1990
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	A11	20030082296	05/01/2003	ELERS, ET AL.	427	96	09/12/2002
	A12	20030075925	04/24/2003	LINDFORS, ET AL.	285	367	06/28/2002
	A13	20030075273	04/24/2003	KILPELA, ET AL.	156	345.33	08/14/2002
	A14	20030072975	04/17/2003	SHERO, ET AL.	428	704	09/26/2002
	A15	20030049942	03/13/2003	HAUKKA, ET AL.	438	778	08/22/2002
	A16	20030042630	03/06/2003	BABCOKE, ET AL.	261	121.1	09/05/2001
	A17	20030031807	02/13/2003	ELERS, ET AL.	427	569	09/17/2002
	A18	20030013320	01/16/2003	KIM, ET AL.	438	778	05/31/2001
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	A20	20020197402	12/26/2002	CHIANG, ET AL.	427	255.39	08/05/2002
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	A22	20020182320	12/05/2002	LESKELA, ET AL.	427	250	03/15/2002
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	A24	20020164423	11/07/2002	CHIANG, ET AL.	427	255.28	05/03/2002
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	A26	20020162506	11/07/2002	SNEH, ET AL.	118	715	06/28/2002
<i>✓</i>	A27	20020153722	10/24/2002	SATTA, ET AL.	438	704	04/15/2002

Examiner *[Signature]* Date Considered *2/8/05*

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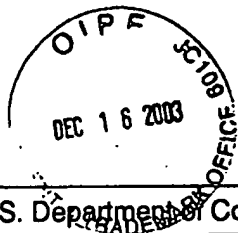
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant Chen, et al.	Confirmation No.
(Use several sheets if necessary)		Filing Date November 13, 2003	Group 1763
Examiner Unknown <i>Zerrignon</i>			

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
<i>TR</i>	A1	20020146511	10/10/2002	CHIANG, ET AL.	427	248.1	10/24/2001
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Examiner *Mark Zerrignon* Date Considered *8/8/05*

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Examiner Unknown <i>Zerigun</i>			

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<i>AB</i>	A1	20010054769	12/27/2001	RAAIJMAKERS, ET AL	257	758	04/26/2001
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	A4	20010042799	11/22/2001	KIM, ET AL.	239	553	02/02/2001
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	A6	20010041250	11/15/2001	WERKHOVEN, ET AL.	428	212	03/06/2001
	A7	20010034123	10/25/2001	JEON, ET AL.	438	643	04/06/2001
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Examiner *Theresa Zerigun*

Date Considered *8/8/05*

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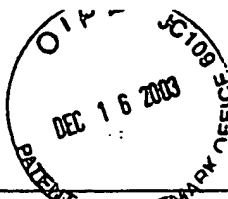
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Examiner Unknown <i>Ferrigon</i>			

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Examiner *Rock Lenz* Date Considered *8/8/5*

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(Use several sheets if necessary)				Filing Date November 13, 2003		Group A63	
Examiner Unknown <i>Zerrigon</i>							
Foreign Patent Documents							
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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.					
<i>RR</i>	C1	Kukli, <i>et al.</i> , "Tailoring the Dielectric Properties of $\text{HfO}_2\text{-Ta}_2\text{-O}_5$ Nanolaminates," Applied Physics Letters, Vol. 68, No. 26, June 24, 1996; p. 3737-9					
	C2	Kukli, <i>et al.</i> , "Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films from $\text{Ta}(\text{OC}_2\text{H}_5)_5$ and H_2O ," Journal of the Electrochemical Society, Vol. 142, No. 5, May 1995; p. 1670-5					
	C3	Kukli, <i>et al.</i> , "In situ Study of Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films From $\text{Ta}(\text{OC}_2\text{H}_5)_5$ and H_2O ," Applied Surface Science, Vol. 112, March 1997, p. 236-42					
	C4	Kukli, <i>et al.</i> , "Properties of Ta_2O_5 -Based Dielectric Nanolaminates Deposited by Atomic Layer Epitaxy," Journal of the Electrochemical Society, Vol. 144, No. 1, Jan. 1997; p. 300-6					
	C5	Kukli, <i>et al.</i> , "Properties of $\{\text{Nb}_{1-x}\text{Ta}_x\}_2\text{O}_5$ Solid Solutions and $\{\text{Nb}_{1-x}\text{Ta}_x\}_2\text{O}_5\text{-ZrO}_2$ Nanolaminates Grown by Atomic Layer Epitaxy," 1997; p. 785-93					
	C6	Ritala, M., <i>et al.</i> , "Chemical Vapor Deposition," January 1999, p. 6-9.					
	C7	Rossnagel, <i>et al.</i> , "Plasma-enhanced Atomic Layer Deposition of Ta and Ti for Interconnect Diffusion Barriers," J. Vac. Sci. Technol. B., Vol. 18, No. 4 (July 2000); p2016-20					
	C8	Niinisto, <i>et al.</i> , "Synthesis of Oxide Thin Films and Overlayers by Atomic Layer Epitaxy for Advanced Applications," Materials Science and Engineering B41 (1996) 23-29					
	C9	Eisenbraun, <i>et al.</i> , "Atomic Layer Deposition (ALD) of Tantalum-based materials for zero thickness copper barrier applications," Proceedings of the IEEE 2001 International Interconnect Technology Conference (Cat. No. 01EX461) 2001					
✓	C10	Clark-Phelps, <i>et al.</i> , "Engineered Tantalum Aluminate and Hafnium Aluminate ALD Films for Ultrathin Dielectric Films with Improved Electrical and Thermal Properties," Mat. Res. Soc. Symp. Proc. Vol. 670 (2001)					
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